ABSM Air Combat Cloud

Advanced Aerial Battlespace Management Solution

Elbit Systems™
Aerospace

What is ABSM Aerial Combat Cloud?

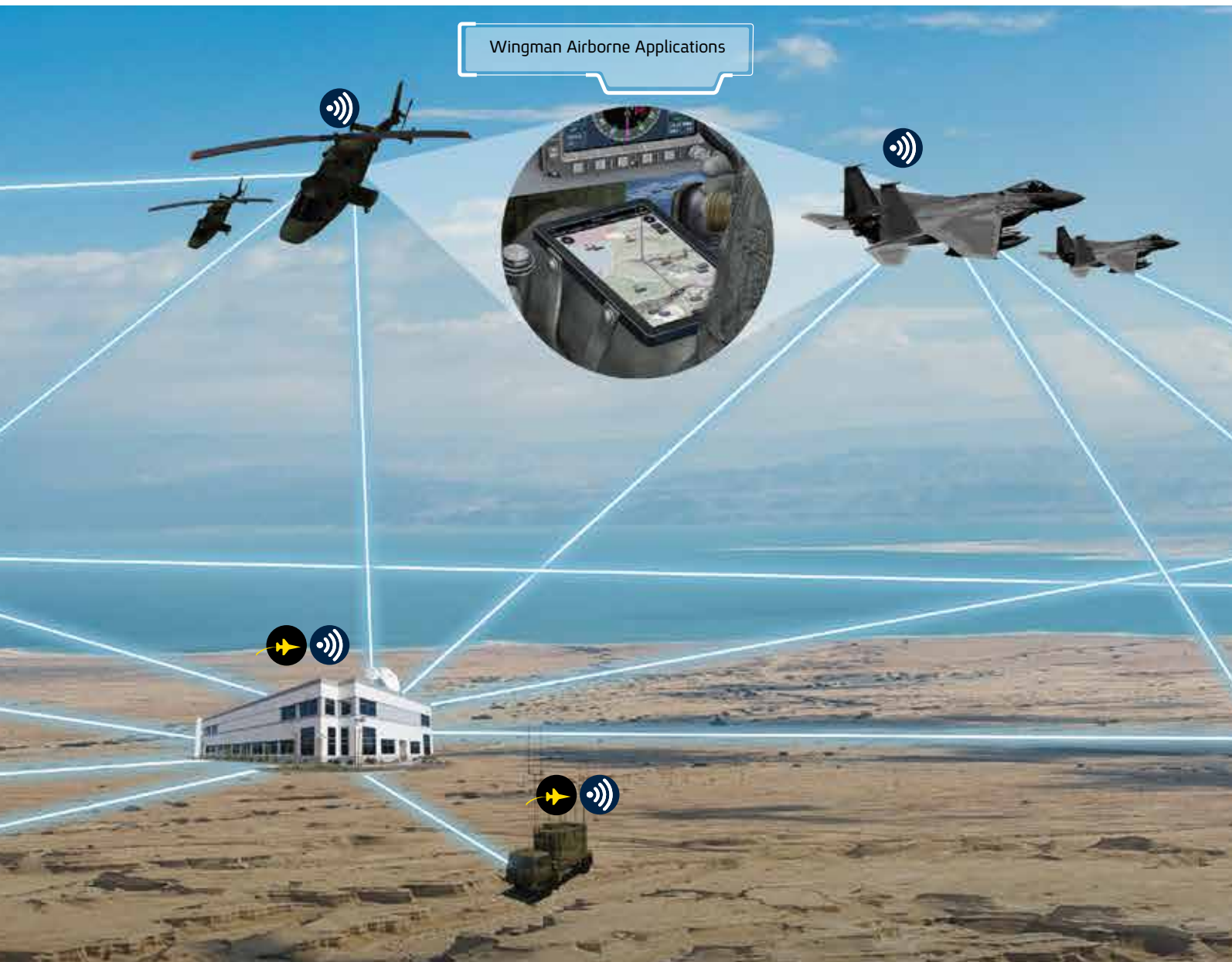
ABSM Aerial Combat Cloud

Managing the Aerial Battlespace

An end-to-end aerial battlespace management solution and combat information cloud, ABSM is skillfully designed to empower commanders and operators with the tools and capabilities they need to achieve unrivaled dominance and precision in the sky.

An advanced digital network of seamlessly integrated technologies, **ABSM is a robust platform comprised of several subsystems** that work together to deliver a comprehensive and powerful solution in a single orchestrated system of systems. **Embracing an open and flexible architecture with a modular building blocks approach**, ABSM is built from the ground up, to integrate new and existing networks, sensors, platforms, and weapon systems into a collaborative aerial combat information cloud.

With over three decades of battle-proven experience engineered into every subsystem and product, and unmatched expertise in avionics, communications, and aircraft upgrade programs, **Elbit Systems' ABSM solutions are trusted by armed forces around the globe**. Primed and ready to empower today's warfighters, ABSM helps the chain of command to make better-informed tactical decisions that drive action at the speed of battle.



SKYTOUCH™
Command & Control Suite

At the heart of the ABSM solution is SKYTOUCH™. **An end-to-end, multifunctional Planning, Command and Control solution**, SKYTOUCH aggregates and analyzes vast amounts of data from numerous sources, **to create a complete and accurate aerial Common Operational Picture (COP)**. Distributed in real-time across the decentralized network, from headquarters and command posts, to aircraft and support units, all the way to the tactical edge, a comprehensive COP helps facilitate better informed decision-making throughout the entire chain of command.

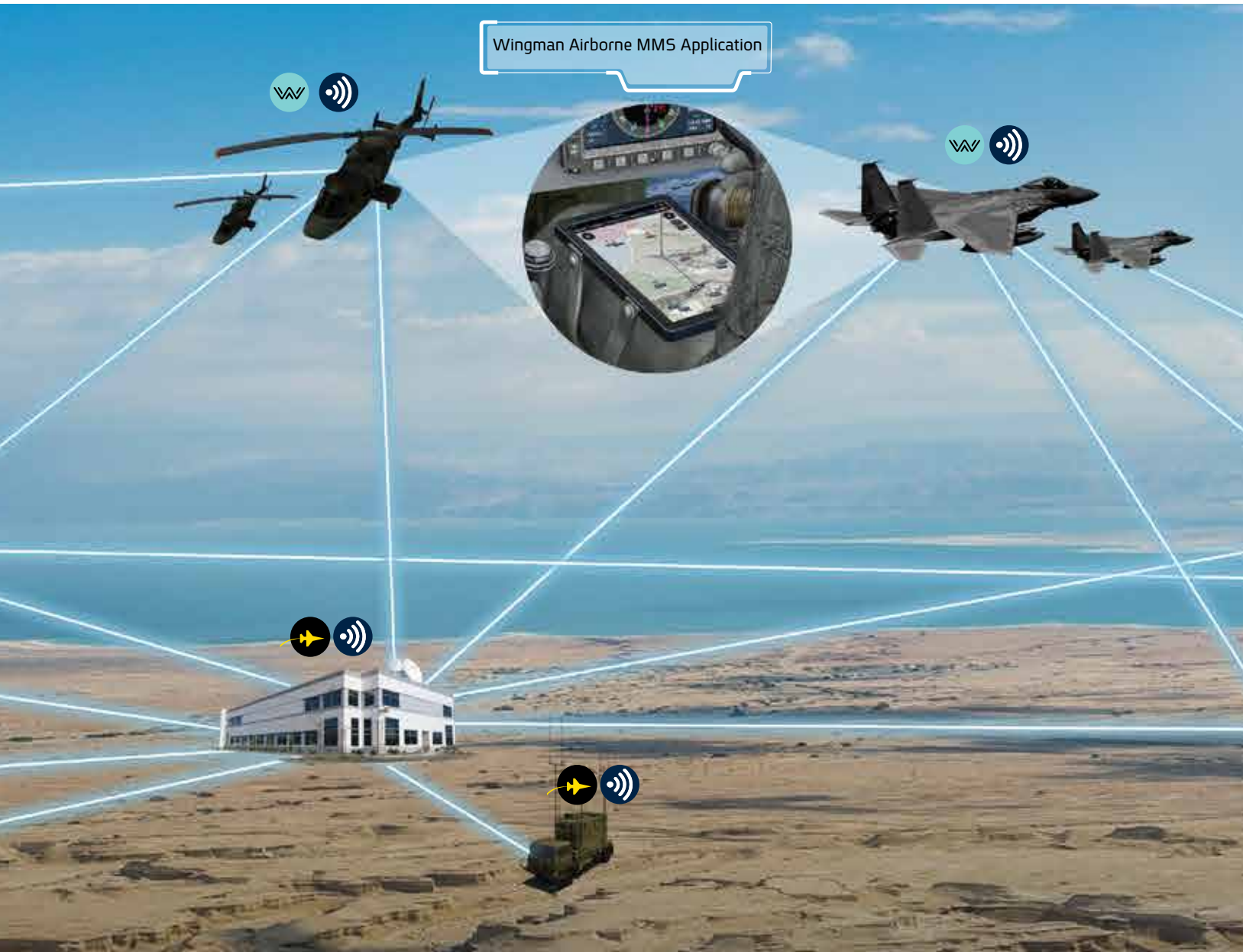
Powered by an intuitive multi-touch UI, rich toolset for mission planning and battle management, advanced data fusion and analytics, **SKYTOUCH enables commanders and operators to direct and coordinate air, ground, and naval control** with exceptional speed and precision. Utilizing E-Lynx Airborne datalink and other datalink and connectivity solutions, **SKYTOUCH holds a set of-the-box tools to optimize Command's mission tasking** and real time data communication in the Aerial Battle Arena to achieve unprecedented collaboration and battle management efficiency. The SKYTOUCH network maintains its resilience via a smart cloud-based platform, deploying the latest technologies to achieve maximum network efficiency and redundancy, and an innovative user experience, helping countries manage their airspace and aerial forces while averting potential threats in their skies.

Wingman™

Advanced Airborne Mission Management System

A Cloud-based airborne application, **the Wingman mission management system provides aircrews with an accurate, real-time view of the aircraft's operational surroundings**, enabling pilots to easily plan routes, waypoints, targets, and attack positions, manually or automatically, and rehearse them prior to the actual flight. Being the Airborne agent of the SKYTOUCH suite, Wingman is designed to enable easy and seamless mission interaction and communication between combat arena members, in the air, and on the ground. Combat proven, with hundreds of thousands of documented flight hours across the globe, Wingman delivers next-generation capabilities and strategic superiority on every mission.

Wingman and E-Lynx Airborne applications, leverage data to deliver ultimate situational awareness to aircrews, and from the aircraft to the network, by integrating all data, sensors and weapons into a single intuitive screen displaying relevant obstacles, threats, borders, sensors, mission data, and more. Decision Support Systems (DSS) further enhance the operational space by providing aircrews with navigation aids, precise route calculations, and terrain-avoidance warnings. Designed for a networked battlespace–the Wingman features a whole set of capabilities that enable the aircrew to easily share mission data in the network and achieve maximum efficiency when collaborating a mission with other network members.



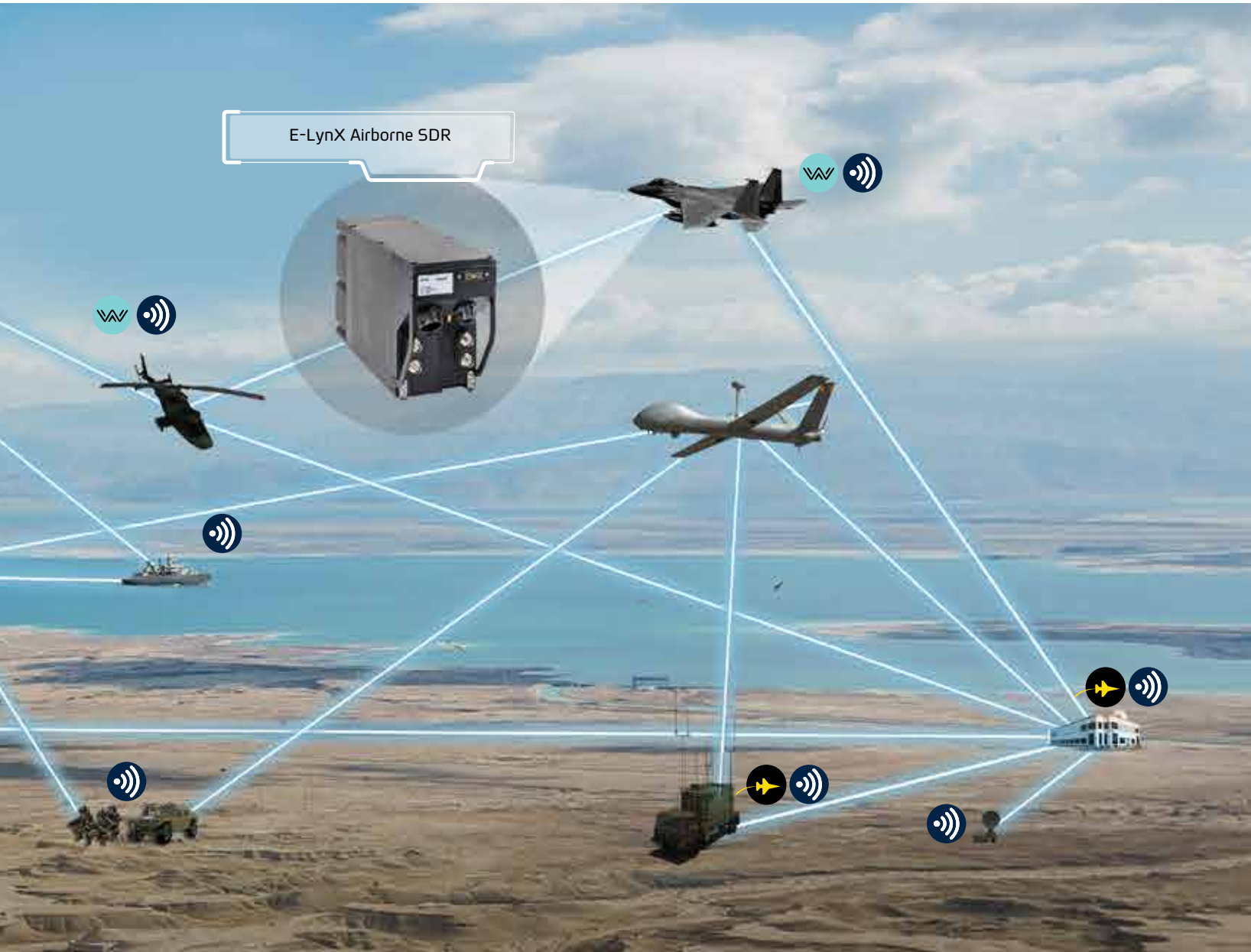
E-LynX™ Airborne

Multichannel, software-defined radio for airborne platforms

A powerful high-speed, multi-channel software-defined radio (SDR), the E-LynX Airborne is designed exclusively for operational installation aboard airborne platforms, including helicopters, transport aircraft, and fighter jets. A highly integrated and secure unit, E-LynX Airborne's advanced embedded mission processing capabilities empower the combat cloud, taking airborne network-centric operations to the next level of performance and interoperability.

The next generation of multi-band, multi-waveform tactical IP radios, E-LynX Airborne is built on a highly advanced and robust platform, **enabling simultaneous transmission of wideband/ narrowband waveforms with full MANET capabilities**, including support for legacy and porting of third-party waveforms. Backed by combat proven, fully secure communication, E-LynX Airborne contributes to mission success, and shortens response time across the entire battlespace, **with the optimal transfer of simultaneous voice, video, and high data rate capabilities. Powered by an all-in-one onboard mission computer**, the unique combination of high-end airborne radio, and a set of mission-focused applications creates an advanced airborne network.

Being an integral part of the ABSM and SKYTOUCH solutions – the E-Lynx Airborne brings connectivity capabilities to a new era.



The Power of ABSM

ABSM

Advanced digital network of seamlessly integrated technologies, ABSM is a robust system of systems comprised of several subsystems that work together to deliver comprehensive Aerial battlespace management, empowering commanders and operators with the tools they need to achieve unrivaled dominance and precision in the sky.

SKYTOUCH™

End-to-end, multifunctional Planning, Command and Control solution at the heart of the ABSM, built to manage airspace and aerial forces by aggregating and analyzing data from numerous sources, to create a complete and accurate aerial Common Operational Picture (COP). SkyTouch is deployed at all Air Force ground sites – Ground Control Units, Squadrons, Command centers, control towers, mission planning disciplines, Air Defense Units

E-LynX Airborne Radio

Powerful high-speed, multi-channel software-defined radio (SDR) for airborne platforms, built to shorten response time across the entire battlespace via the optimal transfer of simultaneous voice, video, and high data rates.

Multi Mission Aircraft

Advanced, flexible and modular solution for aerial, ground and maritime surveillance on any fixed-wing platform, powered by high-resolution ISTAR sensors with ground C^4I infrastructure, to enhance data utilization, analysis, and distribution.

Wingman™

Cloud-based airborne mission management system that provides aircrews with accurate, real-time views of operational surroundings, to simplify missions, reduce cockpit workload, and increase flight safety.

AirTalk

Innovative operational Voice Communication System (VCS) via a standard intercom and radio integration, to enable streamlined voice communication between ground operators and other aircraft/ground teams to relay mission-critical information, and enhance operational airspace control.

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